

RECEIVED  
CENTRAL FAX CENTER

OMB No. 0651-0011

Page 1 of 1

<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 275.0010010	Serial No.: 10/780,797
	Applicant(s): MUNN et al.	Confirmation No.: 1508
	Application Filing Date: 02/17/04	Group: 1614
	Information Disclosure Statement mailed: March 20, 2007	

## U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
	NONE					

## FOREIGN PATENT DOCUMENTS

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
		NONE					Yes	No

## OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)

Examiner Initial	Copy Enclosed	Document Description
/JDA/	X	HOU, et al., "Inhibition of indoleamine 2,3-dioxygenase in dendritic cells by stereoisomers of 1-methyl-tryptophan correlates with antitumor responses," Cancer Res. 2007, Jan 15;67(2):792-801.

<b>EXAMINER</b> /James Anderson/	<b>Date Considered</b> 12/06/2007
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT</b>	Atty. Docket No.: 275.00100101	Serial No.: 10/780,797
	Applicant(s): MUNN et al.	Confirmation No.: 1508
	Application Filing Date: 02/17/04	Group: 1614
	Information Disclosure Statement mailed: September 28, 2007	

**U.S. PATENT DOCUMENTS**

Examiner Initial	Copy Enclosed	Document Number	Date	Name	Class	Subclass	Filing Date If Appropriate
/JDA/		4,244,946	01/13/81	Rivier et al.			
		4,305,872	12/15/81	Johnston et al.			
		4,316,891	02/23/82	Guillemin et al.			
		4,629,784	12/16/86	Stammer			
		4,792,525	12/20/88	Ruoslahti et al.			
		4,868,116	09/19/89	Morgan et al.			
		4,980,286	12/25/90	Morgan et al.			
		5,244,807	09/14/93	Murtfeldt et al.			
		5,723,325	03/03/98	Murtfeldt et al.			
		5,874,560	02/23/99	Kawakami et al.			
		7,160,539 A1	01/09/07	Munn et al.			
		2007/0077234 A1	04/05/07	Munn et al.			
		2007/0099844 A1	05/03/07	Prendergast et al.			
↓		2007/0105907 A1	05/10/07	Prendergast et al.			
/JDA/		2007/0173524 A1	07/26/07	Prendergast et			

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Copy Enclosed	Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
/JDA/	✓	0 385 385 A2	09/05/90	EP				
/JDA/	✓	WO 93/01286	01/21/93	PCT				

<b>EXAMINER</b>  /James Anderson/	<b>Date Considered</b>  12/06/2007
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 275.00100101	<b>Serial No.:</b> 10/780,797
	<b>Applicant(s):</b> MUNN et al.	<b>Confirmation No.:</b> 1508
	<b>Application Filing Date:</b> 02/17/04	<b>Group:</b> 1614
	<b>Information Disclosure Statement mailed:</b> September 28, 2007	

**OTHER DOCUMENTS (Including Authors, Title, Date, Pertinent Papers, etc.)**

Examiner Initial	Copy Enclosed	Document Description
/JDA/	✓	Agrawal et al., "Oligodeoxynucleoside phosphoramidates and phosphorothioates as inhibitors of human immunodeficiency virus", <i>Proc. Natl. Acad. Sci. USA</i> , 85:7079-7083 (1988).
	✓	Albina et al., "Nitric Oxide Production is Required for Murine Resident Peritoneal Macrophages to Suppress Mitogen-Stimulated T Cell Proliferation", <i>J. Immunol.</i> , 147(1):144-148 (1991).
	✓	"A Regulatory Trio," <i>Molecular Biology</i> , 317:873, 17 August 2007.
	✓	Askew et al., "Molecular Recognition with Convergent Functional Groups. 6. Synthetic and Structural Studies with a Model Receptor for Nucleic Acid Components", <i>J. Am. Chem. Soc.</i> , 111:1082-1090 (1989).
	✓	Attwood et al., "The Role of Tryptophan Depletion in T Cell Suppression by Macrophages", <i>Immunology</i> , 92(1):7, Abstract only (1997).
	✓	Bartlett et al. "Introduction of Immunomodulatory genes into isolated pancreatic islets via biolistic particle bombardment." <i>Transplant Proc.</i> Mar:30(2):452.(1998)
	✓	Baynes et al., "Lactoferrin and the Inflammatory Response", <i>Adv. Exp. Med. Biol.</i> , 357:133-141 (1994).
	✓	Begg et al., "Delayed Hematopoietic Development in Osteopetrotic ( <i>op/op</i> ) Mice", <i>J. Exp. Med.</i> , 177:237-242 (1993).
	✓	Belongia et al., "An Investigation of the Cause of the Eosinophilia-Myalgia Syndrome Associated with Tryptophan Use", <i>The New England Journal of Medicine</i> , 323(6):357-365 (1990).
↓	✓	Berney et al., "Transplantation of islets of Langerhans: new developments." <i>Swiss Med Wkly.</i> 132:671-680. 2002.
/JDA/	✓	Beutelspacher et al., "Function of indoleamine 2,3-dioxygenase in corneal allograft rejection and prolongation of allograft survival by over-expression," <i>Eur. J. Immunol.</i> 36:690-700. 2006.

<b>EXAMINER</b> /James Anderson/	<b>Date Considered</b> 12/06/2007
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 275.00100101	<b>Serial No.:</b> 10/780,797
	<b>Applicant(s):</b> MUNN et al.	<b>Confirmation No.:</b> 1508
	<b>Application Filing Date:</b> 02/17/04	<b>Group:</b> 1614
	<b>Information Disclosure Statement mailed:</b> September 28, 2007	

Examiner Initial	Copy Enclosed	Document Description
/JDA/	✓	Bliznakov, "Serotonin and its precursors as modulators of the immunological responsiveness in mice", <i>Journal of Medicine</i> , 11:81-105 (1980).
	✓	Blume et al., "Triple Helix Formation by Purine-rich Oligonucleotides Targeted to the Human Dihydrofolate Reductase Promoter", <i>Nucl. Acids Res.</i> , 20:1777-1784 (1992).
	✓	Bock et al., eds., "Polyfunctional Cytokines: IL-6 and LIF", <i>Ciba Foundation Symposium 167</i> , Title page and Table of Contents (1992).
	✓	Bock et al., eds., "Interactions Among Cell Signalling Systems", <i>Ciba Foundation Symposium 164</i> , Title page and Table of Contents (1992).
	✓	Bogdan, "The Multiplex Function of Nitric Oxide in (Auto)immunity", <i>J. Exp. Med.</i> , 187(9):1361-1365 (1998).
	✓	Bonney et al., "Much IDO about pregnancy", <i>Nature Medicine</i> , 4(10):1128-1129 (1998).
	✓	Brás et al., "Nitric Oxide Regulates Clonal Expansion and Activation-Induced Cell Death Triggered by Staphylococcal Enterotoxin B", <i>Infection and Immunity</i> , 65(10):4030-4037 (1997).
	✓	Burke et al., "The role of indoleamine 2,3-dioxygenase in the anti-tumor activity of human interferon-gamma in vivo", <i>Int. J. Cancer</i> , 60(1):115-122 (1995).
	✓	Cady et al., "1-Methyl-DL-tryptophan, $\beta$ -(3-Benzofuranyl)-DL-alanine (the Oxygen Analog of Tryptophan), and $\beta$ -[3-Benzo(b)thienyl]-DL-alanine (the Sulfur Analog of Tryptophan) Are Competitive Inhibitors for Indoleamine 2,3-Dioxygenase", <i>Arch. Biochem. Biophys.</i> , 291(2):326-333 (1991).
	✓	Capecchi, Ed., "Molecular Genetics of Early Drosophila and Mouse Development", <i>Current Communications in Molecular Biology</i> , Cold Spring Harbor Laboratory Press, Title page and Table of Contents (1989).
↓	✓	Casciari et al., "Glucose Diffusivity in Multicellular Tumor Spheroids", <i>Cancer Research</i> , 48:3905-3909 (1988).
/JDA/	✓	Cecchini et al., "Role of colony stimulating factor-1 in the establishment and regulation of tissue macrophages during postnatal development of the mouse", <i>Development</i> , 120:1357-1372 (1994).

<b>EXAMINER</b> /James Anderson/	<b>Date Considered</b> 12/06/2007
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 275.00100101	<b>Serial No.:</b> 10/780,797
	<b>Applicant(s):</b> MUNN et al.	<b>Confirmation No.:</b> 1508
	<b>Application Filing Date:</b> 02/17/04	<b>Group:</b> 1614
	<b>Information Disclosure Statement mailed:</b> September 28, 2007	

Examiner Initial	Copy Enclosed	Document Description
/JDA/	✓	Chapman et al., "Pharmacologically Active Benzol[b]thiophen Derivatives. Part VIII. Benzo[b]thiophen analogues of Tryptophan and $\alpha$ -Methyltryptophan, and Some of their 5-Substituted Derivatives", <i>J. Chem. Soc. (C)</i> , 14:1855-1858 (1969).
	✓	Chen et al., "Eradication of Murine Bladder Carcinoma by Intratumor Injection of Bicistronic Adenoviral Vector Carrying cDNAs for the IL-12 Heterodimer and Its Inhibition by the IL-12 p40 Subunit Homodimer, <i>The Journal of Immunology</i> , 159:351-359 (1997).
	✓	Cheng et al., "Relationship Between the Inhibition Constant ( $K_i$ ) and the Concentration of Inhibitor Which Causes 50 Per Cent Inhibition ( $I_{50}$ ) of an Enzymatic Reaction", <i>Biochemical Pharmacology</i> , 22:3099-3108 (1973).
	✓	Cicala et al., "NO-naproxen modulates inflammation, nociception and downregulates T cell response in rat Freund's adjuvant arthritis", <i>British Journal of Pharmacology</i> , 130(6):1399-1405 (2000).
	✓	Cooney et al., "Site-Specific Oligonucleotides Binding Represses Transcription of the Human c-myc Gene in Vitro", <i>Science</i> , 241:456-459 (1988).
	✓	Crooke, "Progress Toward Oligonucleotide Therapeutics: Pharmacodynamic Properties", <i>FASEB J.</i> , 7:533-539 (1993).
	✓	Dalton et al., "Multiple Defects of Immune Cell Function in Mice with Disrupted Interferon- $\gamma$ Genes", <i>Science</i> , 259:1739-1742 (1993).
	✓	Degauque et al., "Dominant Tolerance to Kidney Allografts Induced by Anti-Donor MHC Class II Antibodies: Cooperation between T and Non-T CD 103+ Cells," <i>Journ. Of Immunology</i> . Pgs. 3915-3922. (2006).
	✓	Dong et al., "Activation of CFTR chloride current by nitric", <i>EMBO J.</i> , 14(12): 2700-2707 (1995). Abstract only (1 pg.).
↓	✓	Duval-Valentin et al., "Specific Inhibition of Transcription by Triple Helix-Forming Oligonucleotides", <i>Proc. Natl. Acad. Sci. USA</i> , 89:504-508 (1992).
/JDA/	✓	Efron et al., "Nitric oxide generation from L-arginine is required for optimal human peripheral blood lymphocyte DNA synthesis", <i>Surgery</i> , 110:327-334 (1991).

<b>EXAMINER</b>  /James Anderson/	<b>Date Considered</b>  12/06/2007
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 275.00100101	<b>Serial No.:</b> 10/780,797
	<b>Applicant(s):</b> MUNN et al.	<b>Confirmation No.:</b> 1508
	<b>Application Filing Date:</b> 02/17/04	<b>Group:</b> 1614
	<b>Information Disclosure Statement mailed:</b> September 28, 2007	

Examiner Initial	Copy Enclosed	Document Description
/JDA/	✓	Ellington et al., "In vitro selection of RNA molecules that bind specific ligands," <i>Nature</i> , Aug 30;346(6287):818-22. (1990).
	✓	Ellington et al., "Selection <i>in vitro</i> of single-stranded DNA molecules that fold into specific ligand-binding structures", <i>Nature</i> , 355(6363):850-852 (1992).
	✓	Fleckner et al., "Human interferon $\gamma$ potently induces the synthesis of a 55-kDa protein ( $\gamma 2$ ) highly homologous to rabbit peptide chain release factor and bovine tryptophanyl-tRNA synthetase", <i>Proc. Natl. Acad. Sci. USA</i> , 88(24):11520-11524 (1991).
	✓	Fleckner et al., "Differential Regulation of the Human, Interferon Inducible Tryptophanyl-tRNA Synthetase by Various Cytokines in Cell Lines", <i>Cytokine</i> , 7(1):70-77 (1995).
	✓	Giannoukakis et al. "Targeting Autoimmune Diabetes with Gene Therapy." <i>Diabetes</i> , Vol. 48, pp. 2107-2121 (1999).
	✓	Giannoukakis et al. "Prevention of beta cell dysfunction and apoptosis activation in human islets by adenoviral gene transfer of the insulin-like growth factor I." <i>Gene Ther.</i> Dec;7(23):2015-22 (2202).
	✓	Giannoukakis et al. "Infection of intact human islets by a lentiviral vector." <i>Gene Ther.</i> Sep;6(9):1545-51 (1999).
	✓	Giannoukakis et al. "Adenoviral Gene Transfer of the Interleukin-1 Receptor Antagonist Protein to Human Islets Prevents IL-1 $\beta$ -Induced $\beta$ -Cell Impairment and Activation of Islet Cell Apoptosis in Vitro." <i>Diabetes</i> , Vol. 48, Sept 1999, pp. 1730-1736
↓	✓	Gmünder et al., "Macrophages Regulate Intracellular Glutathione Levels of Lymphocytes. Evidence for an Immunoregulatory Role of Cysteine", <i>Cell. Immunol.</i> , 129:32-46 (1990).
/JDA/	✓	Grigoriev et al., "A Triple Helix-forming Oligonucleotide-Intercalator Conjugate Acts as Transcriptional Repressor via Inhibition of NF KB Binding to Interleukin-2 Receptor $\alpha$ -Regulatory Sequence", <i>J. Biol. Chem.</i> , 267:3389-3395 (1992).

<b>EXAMINER</b>  /James Anderson/	<b>Date Considered</b>  12/06/2007
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 275.00100101	<b>Serial No.:</b> 10/780,797
	<b>Applicant(s):</b> MUNN et al.	<b>Confirmation No.:</b> 1508
	<b>Application Filing Date:</b> 02/17/04	<b>Group:</b> 1614
	<b>Information Disclosure Statement mailed:</b> September 28, 2007	

Examiner Initial	Copy Enclosed	Document Description
/JDA/	✓	Haspot et al., "Anti-CD28 Antibody-Induced Kidney Allograft Tolerance Related to Tryptophan Degradation and TCR- Class II- B7+ Regulatory Cells," <i>Amer. Journ. Of Transplantation</i> , 5:2339-2348. (2005).
	✓	Hayaishi, "Utilization of Superoxide Anion by Indoleamine Oxygenase-Catalyzed Tryptophan and Indoleamine Oxidation", <i>Adv. Exp. Med. Biol.</i> , 398:285-289. (1996).
	✓	Heesen et al., " $\beta_2$ -Adrenoceptor Density of Human Lymphocytes After Nitroprusside-Induced Hypotension", <i>Anesth Analg</i> , 81:1250-1254 (1995).
	✓	Hogan et al., "Manipulating the Mouse Embryo - A Laboratory Manual", <i>Cold Spring Harbor Laboratory</i> , 1 pg. publication (1986).
	✓	Holt et al., "An Oligomer Complementary to c-myc mRNA Inhibits Proliferation of HL-60 Promyelocytic Cells and Induces Differentiation", <i>Mol. Cell. Biol.</i> , 8:963-973 (1988).
	✓	Hou et al., "Inhibition of Indoleamine 2,3-Dioxygenase in Dendritic Cells by Stereoisomers of 1-Methyl-Tryptophan Correlates with Antitumor Responses," <i>Cancer Res.</i> , 67:(2):792-801 (2007).
	✓	Ibrahim et al., "The injured cell: the role of the dendritic cell system as a sentinel receptor pathway", <i>Immunology Today</i> , 16(4):181-186 (1995).
	✓	Itakura et al., "Synthesis and use of Synthetic Oligonucleotides", <i>Ann. Rev. Biochem.</i> , 53:323-356 (1984).
	✓	Iwata et al., "Thiol-Mediated Redox Regulation of Lymphocyte Proliferation. Possible Involvement of Adult T Cell Leukemia-Derived Factor and Glutathione in Transferrin Receptor Expression", <i>J. Immunol.</i> , 152:5633-5642 (1994).
	✓	Janeway, Jr., "The immune system evolved to discriminate infectious nonself from noninfectious self", <i>Immunology Today</i> , 13(1):11-16 (1992).
↓	✓	Janeway, Jr. et al., <i>ImmunoBiology, The Immune System in Health and Disease</i> , Current Biology Limited, London, U.K., 12:30-12:34 (1994).
/JDA/	✓	Jorgensen et al., "Gene therapy in osteoarticular diseases: where are we?", <i>Immunology Today</i> , 19(9):387-391 (1998).

<b>EXAMINER</b> /James Anderson/	<b>Date Considered</b> 12/06/2007
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 275.00100101	<b>Serial No.:</b> 10/780,797
	<b>Applicant(s):</b> MUNN et al.	<b>Confirmation No.:</b> 1508
	<b>Application Filing Date:</b> 02/17/04	<b>Group:</b> 1614
	<b>Information Disclosure Statement mailed:</b> September 28, 2007	

Examiner Initial	Copy Enclosed	Document Description
/JDA/	✓	Kadoya et al., "Gene structure of human indoleamine 2,3-dioxygenase," <i>Bio. and Biophysical Research Comm.</i> Vol.189, No. 1 pp.530-536 (1992).
	✓	Kakuda et al., "Na(+)-independent transport (uniport) of amino acids and glucose in mammalian cells", <i>J. Exp. Biol.</i> , 196:93-108 (1994).
	✓	Kamath et al., "Amino Acid-Restricted Diets in the Treatment of Mammary Adenocarcinoma in Mice", <i>J. Nutr.</i> , 118(9):1137-1142 (1988).
	✓	Kamijo et al., "Mice That Lack the Interferon- $\gamma$ Receptor Have Profoundly Altered Responses to Infection with Bacillus Calmette-Guérin and Subsequent Challenge with Lipopolysaccharide", <i>J. Exp. Med.</i> , 178:1435-1440 (1993).
	✓	Kaptureczak et al. "Transduction of human and mouse pancreatic islet cells using a bicistronic recombinant adeno-associated viral vector." <i>Mol Ther.</i> Feb;5(2):154-60 (2002).
	✓	Kenyon et al. "Islet transplantation; present and future perspectives." <i>Diabetes Metab Rev.</i> Dec;14(4)303-313 (1998).
	✓	Kisselev, "Mammalian tryptophanyl-tRNA synthetases", <i>Biochimie</i> , 75:1027-1039 (1993).
	✓	Kolb et al., "Nitric oxide in autoimmune disease: cytotoxic or regulatory mediator?", <i>Immunology Today</i> , 19(12): 556-561 (1998).
	✓	Li et al., "Expression of indoleamine 2,3-dioxygenase in dermal fibroblasts functions as a local immunosuppressive factor," <i>J. Invest. Dermatol.</i> 122(4):953-964 (2004).
	✓	Logan et al., "Potential Use of Genetically Modified Pigs as Organ Donors for Transplantation into Humans," <i>Clinical and Exper. Pharm. and Physiology</i> , 26:1020-1025 (1999).
✓	✓	MacMicking et al., "Nitric Oxide and Macrophage Function", <i>Annu. Rev. Immunol.</i> , 15:323-350 (1997).
/JDA/	✓	Maher et al., "Inhibition of DNA binding proteins by oligonucleotide-directed triple helix formation", <i>Science</i> , 245:725-730 (1989).

<b>EXAMINER</b>  /James Anderson/	<b>Date Considered</b>  12/06/2007
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	



<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 275.00100101	<b>Serial No.:</b> 10/780,797
	<b>Applicant(s):</b> MUNN et al.	<b>Confirmation No.:</b> 1508
	<b>Application Filing Date:</b> 02/17/04	<b>Group:</b> 1614
	<b>Information Disclosure Statement mailed:</b> September 28, 2007	

Examiner Initial	Copy Enclosed	Document Description
/JDA/	✓	Mayeno et al., "Characterization of "Peak," a Novel Amino Acid Associated with Eosinophilia-Myalgia Syndrome", <i>Science</i> , 250:1707-1708 (1990).
	✓	McGivan et al., "Regulatory and molecular aspects of mammalian amino acid transport", <i>Biochem J.</i> , 299(Part 2):321-334 (1994).
	✓	McKinlay et al., "Rational Design of Antiviral Agents", <i>Annu. Rev. Pharmacol. Toxicol.</i> , 29:111-122 (1989).
	✓	Mellor et al., "HLA-G transgenic mice", <i>Journal of Reproductive Immunology</i> , 43:253-261 (1999).
	✓	Mellor et al., Immunology at the Maternal-Fetal Interface: Lessons for T Cell Tolerance and Suppression", <i>Annu. Rev. Immunol.</i> , 18:367-391 (2000).
	✓	Mellor et al., "Cutting edge: CpG Oligonucleotides Induce Spenic CD19+ Dendritic Cells to Acquire Potent Indoleamine 2,3-Dioxygenase-Dependent T Cell Regulatory Functions via IFN Type 1 Signaling," <i>Journ. Of Immun.</i> Pages 5601-5605 (2005).
	✓	Merrifield, "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide", <i>J. Am. Chem. Soc.</i> , 85:2149-2154 (1963).
	✓	Meyer et al., "Trptophan metabolism in chronic inflammatory lung disease", <i>J. Lab. Clin. Med.</i> , 126(6):530-540 (1995).
	✓	Mills, "Molecular Basis of "Suppressor" Macrophages - Arginine Metabolism via the Nitric Oxide Synthetase Pathway", <i>J. Immunol.</i> , 146(8):2719-2723 (1991).
	✓	Moore et al., "Enhanced Response of Macrophages to CSF-1 in Autoimmune Mice", <i>J. Immunol.</i> , 157:433-440 (1996).
	✓	Morgan et al., "Scleroderma and autoimmune thrombocytopenia associated with ingestion of L-tryptophan", <i>British Journal fo Dermatology</i> , 128:581-583 (1993).
↓	✓	Muller et al., "Inhibition of indoleamine 2,3-dioxygenase, an immunoregulatory target of the cancer suppression gene Bin1, potentiates cancer chemotherapy," <i>Nature Medicine</i> , 11:3:312-319. (2005).
/JDA/	✓	Muller et al., "Marrying Immunotherapy with Chemotherapy: Why Say IDO?," <i>Cancer Res.</i> , 65:(18):8065-8068. (2005).

<b>EXAMINER</b>  /James Anderson/	<b>Date Considered</b>  12/06/2007
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 275.00100101	<b>Serial No.:</b> 10/780,797
	<b>Applicant(s):</b> MUNN et al.	<b>Confirmation No.:</b> 1508
	<b>Application Filing Date:</b> 02/17/04	<b>Group:</b> 1614
	<b>Information Disclosure Statement mailed:</b> September 28, 2007	

Examiner Initial	Copy Enclosed	Document Description
/JDA/	✓	Mulligan, "The Basic Science of Gene Therapy", <i>Science</i> , 260:926-932 (1993).
	✓	Munn et al., "Antibody-Dependent Antitumor Cytotoxicity by Human Monocytes Cultured with Recombinant Macrophage Colony-Stimulating Factor", <i>J. Exp. Med.</i> , 170:511-526 (1989).
	✓	Munn, David H., "Inhibition of T Cells by Tryptophan Degradation," Grant Abstract, Grant Number 1R21AI44759-01 [online]. National Institutes of General Medical Sciences, National Institutes of Health, project dates 09/30/98-009/29/00 [retrieved on 2001-02-15]. Retrieved from the Internet: URL: <a href="http://commons.cit.nih.gov/crisp_historical/crisp_lib.getdoc?textkey=2802812&amp;p_grant_num=1R21AI44759-01&amp;p_query=&amp;ticket=63957&amp;p_audit_session_id=363938&amp;p_keywords=&gt;">http://commons.cit.nih.gov/crisp_historical/crisp_lib.getdoc?textkey=2802812&amp;p_grant_num=1R21AI44759-01&amp;p_query=&amp;ticket=63957&amp;p_audit_session_id=363938&amp;p_keywords=&gt;</a> , 2 pages.
	✓	Munn, "Indoleamine 2,3-dioxygenase, tumor-induced tolerance and counter-regulation," <i>Curr. Opin. Immunol.</i> Apr;18(2):220-225. Epub 2006 Feb 7. (2006).
	✓	Narang et al., "[61] Chemical Synthesis of Deoxyoligonucleotides by the Modified Triester Method", <i>Methods in Enzymology</i> , 65:610-620 (1980).
	✓	Offensperger et al., "In Vivo inhibition of duck hepatitis B virus replication and gene expression b phosphorothioate modified antisense oligodeoxynucleotides", <i>EMBO J.</i> , 12(3):1257-1262 (1993).
	✓	Orson et al., "Oligonucleotide inhibition of IL2R $\alpha$ mRNA transcription by promoter region collinear rplex formation in lymphocytes", <i>Nucl. Acids Res.</i> , 19:3435-3441 (1991).
↓	✓	Ottaviani et al., "The invertebrate phagocytic immunocyte: clues to a common evolution of immune and neuroendocrine systems", <i>Immunol. Today</i> , 18(4):169-174 (1997).
/JDA/	✓	Ozaki et al., "Induction of indoleamine 2,3-dioxygenase: A mechanism of the antitumor activity of interferon $\gamma$ ", <i>Proc. Natl. Acad. Sci. USA</i> , 85:1242-1246 (1988).

<b>EXAMINER</b>  /James Anderson/	<b>Date Considered</b>  12/06/2007
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 275.00100101	<b>Serial No.:</b> 10/780,797
	<b>Applicant(s):</b> MUNN et al.	<b>Confirmation No.:</b> 1508
	<b>Application Filing Date:</b> 02/17/04	<b>Group:</b> 1614
	<b>Information Disclosure Statement mailed:</b> September 28, 2007	

Examiner Initial	Copy Enclosed	Document Description
/JDA/	✓	Perry et al., "The Use of 3D Modelling Databases for Identifying Structure Activity Relationships", <u>QSAR: Quantitative Structure-Activity Relationships in Drug Design</u> , Proceedings of the 7 <sup>th</sup> European Symposium on QSAR held in Interlaken, Switzerland, September 5-9, 1988, Alan R. Liss, Inc. - New York, pp. 189-193 (1989).
	✓	Peterson et al., "Evaluation of Functionalized Tryptophan Derivatives and Related Compounds as Competitive Inhibitors of Indoleamine 2,3-Dioxygenase", <i>Med. Chem. Res.</i> , 3:531-544 (1994).
	✓	Postel et al., "Evidence that a triplex-forming oligodeoxyribonucleotide binds to the c-myc promoter in heLa cells, thereby reducing c-myc mRNA levels, <i>Proc. Natl. Acad. Sci. USA</i> , 88:8227-8231 (1991).
	✓	Potter et al., "Enhancer-dependent expression of human κ immunoglobulin genes introduced into mouse pre-B lymphocytes by electroporation", <i>Proc. Natl. Acad. Sci. USA</i> , 81:7161-7165 (1984).
	✓	Potula et al., Inhibition of indoleamine 2,3-dioxygenase (IDO) enhances elimination of virus-infected macrophages in an animal model of HIV-1 encephalitis," <i>Immunobiology, Blood</i> , 1 October 2005, 106(7):233822390.
	✓	Prasad et al., "Relationship between Thyroid Hormone Transport and Neutral Amino Acid Transport in JAR Human Choriocarcinoma Cells", <i>Endocrinology</i> , 134(2):574-581 (1994).
	✓	Raynovich, "Late-Stage Cancer Vaccines Set to Launch, with Five Major Players, Therapeutic Vaccines Could Transform Medical Care," <i>GEN Biobusiness Wall Street Biobeat</i> . March 1, 2007. genengnews.com. <i>Gen.Eng. &amp; Biotech. News</i> .
	✓	Renault et al., "Base Transitions Are the Most Frequent Genetic Changes at P53 in Gastric Cancer", <i>Cancer Research</i> , 53:2614-2617 (1993).
↓	✓	"Rheumatoid Arthritis," <i>Genetic Eng. &amp; Biotech. News</i> , March 1, 2007. Genengnews.com, (72) Translational Medicine.
/JDA/	✓	Ripka, "Computers picture the perfect drug", <i>New Scientist</i> , 54-57 (1988).

<b>EXAMINER</b>  /James Anderson/	<b>Date Considered</b>  12/06/2007
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 275.00100101	<b>Serial No.:</b> 10/780,797
	<b>Applicant(s):</b> MUNN et al.	<b>Confirmation No.:</b> 1508
	<b>Application Filing Date:</b> 02/17/04	<b>Group:</b> 1614
	<b>Information Disclosure Statement mailed:</b> September 28, 2007	

Examiner Initial	Copy Enclosed	Document Description
/JDA/	✓	Rosoff et al., "4,4'-Diisothiocyantostilbene-2,2'-disulfonic Acid Inhibits CD3-T Cell Antigen Receptor-stimulated Ca <sup>2+</sup> Influx in Human T Lymphocytes", <i>J. Biol. Chem.</i> , 263(36):19535-19540 (1988).
	✓	Rouvinen et al., "Computer-Aided Drug Design", <i>Acta Pharmaceutica Fennica</i> , 97:159-166 (1988).
	✓	Rubin et al., "Interferon Induces Tryptophanyl-tRNA Synthetase Expression in Human Fibroblasts", <i>The Journal of Biological Chemistry</i> , 266(36):24245-24248 (1991).
	✓	Saadi et al., "Immunology of Xenotransplantation" <i>Life Sciences</i> , 62(5):365-387 (1998).
	✓	Sambrook et al., <i>Molecular Cloning: A Laboratory Manual</i> , Second Edition, Books 1-3, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, New York, Title page and Table of Contents only, 29 pages (1989).
	✓	Sanchez del Pino et al., "Neutral Amino Acid Transport Characterization of Isolated Luminal and Abluminal Membranes of the Blood-Brain Barrier", <i>The Journal of Biological Chemistry</i> , 270(25):14913-14918 (1995).
	✓	Sarin et al., "Inhibition of acquired immunodeficiency syndrome virus by oligodeoxynucleoside methylphosphonates", <i>Proc. Natl. Acad. Sci. USA</i> , 85:7448-7451 (1988).
	✓	Schaller et al., "Identification of the Disulfide Bonds of the Human Complement Component C9 and Comparison with the Other Terminal Components of the Membrane Attack Complex", <i>MPSA Short Communications</i> , pp. 472-473 (1996).
↓	✓	Schröder et al., "Suppression of the Modulatory Effects of the Antileukemic and Anti-Human Immunodeficiency Virus Compound Avarol on Gene Expression by Tryptophan", <i>Cancer Research</i> , 49(8):2069-2076 (1989).
/JDA/	✓	Serreze et al., "Defects in the Differentiation and Function of Antigen Presenting Cells in NOD/Lt Mice, <i>J. Immunol.</i> , 150(6):2534-2543 (1993).

<b>EXAMINER</b>  /James Anderson/	<b>Date Considered</b>  12/06/2007
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 275.00100101	<b>Serial No.:</b> 10/780,797
	<b>Applicant(s):</b> MUNN et al.	<b>Confirmation No.:</b> 1508
	<b>Application Filing Date:</b> 02/17/04	<b>Group:</b> 1614
	<b>Information Disclosure Statement mailed:</b> September 28, 2007	

Examiner Initial	Copy Enclosed	Document Description
/JDA/	✓	Seymour et al., "Identification and Characterization of a Novel, High-Affinity Tryptophan-Selective Transport System in Human Macrophages", <i>Blood</i> , 90(10):448a, Abstract only (1997).
	✓	Sharma et al., "Plasmacytoid dendritic cells from mouse tumor-draining lymph nodes directly activate mature Tregs via indoleamine 2,3-dioxygenase," First Published online on August 16, 2007. <i>Journ. Of Clinical Investigation, Research Article</i> . Pgs. 1-13.
	✓	Shaw et al., "Modified deoxyoligonucleotides stable to exonuclease degradation in serum", <i>Nucleic Acids Res.</i> , 19(4):747-750 (1991).
	✓	Sidransky et al., "Effect of Tryptophan on Hepatoma and Host Liver of Rats. Influence After Treatment with Hypertonic Sodium Chloride and Carbon Tetrachloride", <i>Exp. Mol. Pathol.</i> , 35(1):124-136 (1981).
	✓	Sigalla et al. "Adenovirus-mediated gene transfer into isolated mouse adult pancreatic islets: normal beta-cell function despite induction of an anti-adenovirus immune response." <i>Hum Gene Ther</i> 1997 Sept1;8(13) 1625-1634.
	✓	Sono et al., "Indoleamine 2,3-Dioxygenase. Equilibrium Studies of the Tryptophan Binding to the Ferric, Ferrous, and Co-Bound Enzymes", <i>J. Biol. Chem.</i> , 255(4):1339-1345 (1980).
	✓	Sponass et al., "Induction of tolerance to self MHC class I molecules expressed under the control of milk protein or $\beta$ -globin gene promoters," <i>Intl. Immun.</i> , Vol. 6, No. 2, pp 277-287 (1994).
	✓	Steckel et al., "Indoleamine 2,3-Dioxygenase expression in patients with acute graft-versus-host disease after allogeneic stem cell transplantation and in pregnant women: association with the induction of allogeneic immune tolerance?," <i>Scandinavian Journ. Of Immun.</i> , 57, pp 185-191 (2003).
↓	✓	Sternberg et al., "Development of a Scleroderma-Like Illness During Therapy with L5-Hydroxytryptophan and Carbidopa", <i>N. Engl. J. Med.</i> , 303(14):782-787 (1980).
/JDA/	✓	Suzuki, "Abalone Myoglobins Evolved from Indoleamine Dioxygenase: The cDNA-Derived Amino Acid Sequence of Myoglobin from <i>Nordotis madaka</i> ", <i>Journal of Protein Chemistry</i> , 14(1):9-13 (1994).

<b>EXAMINER</b>  /James Anderson/	<b>Date Considered</b>  12/06/2007
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 275.00100101	<b>Serial No.:</b> 10/780,797
	<b>Applicant(s):</b> MUNN et al.	<b>Confirmation No.:</b> 1508
	<b>Application Filing Date:</b> 02/17/04	<b>Group:</b> 1614
	<b>Information Disclosure Statement mailed:</b> September 28, 2007	

Examiner Initial	Copy Enclosed	Document Description
/JDA/	✓	Suzuki et al., "Convergent evolution. The gene structure of Sulculus 41 kDa myoglobin is homologous with that of human indoleamine dioxygenase," <i>Biochem. Biophys. Acta</i> , 1308:41-48 (1996).
	✓	Swanson et al., "CD11c+ Cells Modulate Pulmonary Immune Responses by Production of Indoleamine 2,3-Dioxygenase," <i>Am. Journ. Of Respiratory Cell and Molecular Biology</i> , Vol. 30, pp 311-318 (2004).
	✓	Szostak, "In vitro genetics", <i>TIBS</i> , 17(3):89-93 (1992).
	✓	Takikawa et al., "Induction of Indoleamine 2,3-Dioxygenase in Tumor Cells Implanted Into Allogeneic Mouse: Interferon-γ is the Inducer", <i>Kynurenine and Serotonin Pathways</i> , pp. 437-444, Plenum Press: New York (1991).
	✓	Terness et al., "Inhibition of allogeneic T cell proliferation by Indoleamine 2,3-Dioxygenase-expressing dendritic cells: mediation of suppression by tryptophan metabolites," <i>J. Exp. Med.</i> Vol.196, No. 4, pp 447-457 (2002).
	✓	Thomson et al., "Are dendritic cells the key to liver transplant tolerance?", <i>Immunology Today</i> , 6 pgs. (1999).
	✓	Torre et al., "Immunological Aspects of Nitric Oxide in HIV-1 Infection", <i>Medical Hypotheses</i> , 47:405-407 (1996).
	✓	Weber, et al. "Adenoviral transfection of isolated pancreatic islets: a study of programmed cell death (apoptosis) and islet function." <i>J Surg Res.</i> Apr;69(1):23-32 (1997).
	✓	Weiss et al., "Linkage of cell-mediated immunity to iron metabolism", <i>Immunology Today</i> , 16(10):495-500 (1995).
✓	✓	Werner et al., Human Macrophages Degrade Tryptophan Upon Induction by Interferon-Gamma", <i>Life Sciences</i> , 41(3):273-280 (1987).
/JDA/	✓	Wickstrom et al., "Human promyelocytic leukemia HL-60 cell proliferation and c-myc protein expression are inhibited by an antisense pentadecadeoxynucleotide targeted against c-myc mRNA", <i>Proc. Natl. Acad. Sci. USA</i> , 85:1028-1032 (1988).

<b>EXAMINER</b>  /James Anderson/	<b>Date Considered</b>  12/06/2007
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>INFORMATION DISCLOSURE STATEMENT</b>	<b>Atty. Docket No.:</b> 275.00100101	<b>Serial No.:</b> 10/780,797
	<b>Applicant(s):</b> MUNN et al.	<b>Confirmation No.:</b> 1508
	<b>Application Filing Date:</b> 02/17/04	<b>Group:</b> 1614
	<b>Information Disclosure Statement mailed:</b> September 28, 2007	

Examiner Initial	Copy Enclosed	Document Description
/JDA/	✓	Willenborg et al., "IFN- $\gamma$ Plays a Critical Down-Regulatory Role in the Induction and Effector Phase of Myelin Oligodendrocyte Glycoprotein-Induced Autoimmune Encephalomyelitis", <i>J. Immunol.</i> , 157:3223-3227 (1996).
	✓	Young et al., "Triple helix formation inhibits transcription elongation in vitro", <i>Proc. Natl. Acad. Sci. USA</i> , 88:10023-10026 (1991).
	✓	Zamecnik et al., "Inhibition of Rous sarcoma virus replication and cell transformation by a specific oligodeoxynucleotide", <i>Proc. Natl. Acad. Sci. USA</i> , 75:280-284 (1978).
	✓	Zamecnik et al., "Inhibition of replication and expression of human T-cell lymphotropic virus type III in cultured cells by exogenous sythenic oligonucleotides complementary to viral RNA", <i>Proc. Natl. Acad. Sci. USA</i> , 83:4143-4146 (1986).
	✓	Zhou et al., "Expanded cohorts of maternal CD8 <sup>+</sup> T-cells specific for paternal MHC class I accumulate during pregnancy", <i>J. Reprod. Immunol.</i> , 40:47-62 (1998).
	✓	Zhou et al., "Evidence for a Close Link between the Thyroid Hormone Transport System and the Aromatic Amino Acid Transport System T in Erythrocytes", <i>J. Biol. Chem.</i> , 265(28):17000-17004 (1990).
↓	✓	Zhu et al., "Systemic Gene Expression After Intravenous DNA Delivery into Adult Mice", <i>Science</i> , 261:209-211 (1993).
/JDA/	✓	Zimmer et al., "Production of chimaeric mice containing embryonic stem (ES) cells carrying a homoeobox Hox 1.1 allele mutated by homologous recombination", <i>Nature</i> , 338:150-153 (1989).

<b>EXAMINER</b>  /James Anderson/	<b>Date Considered</b>  12/06/2007
*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	